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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/779,768	02/18/2004	Shinichi Itoh	009270-0308308	1603
909 75500 PILLSBURY WINTHROP SHAW PITTMAN, LLP P.O. BOX 10500 MCLEAN, VA 22102			EXAMINER	
			JOERGER, KAITLIN S	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/779,768 ITOH ET AL. Office Action Summary Examiner Art Unit KAITLIN S. JOERGER 3653 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 December 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 and 3-23 is/are pending in the application. 4a) Of the above claim(s) 4-23 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1 and 3 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 18 February 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/06)
Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 claims the invention in terms relative to the paper material being fed. The invention is indefinite because it depends on the type of paper being fed and the features are not concretely defined. The thickness of the second layer changes depending on how thick the most thick postal item that is fed through the apparatus actually is. The coefficient of friction between the first layer and the postal item being fed also changes relative to the type of material being conveyed. Therefore, the examiner cannot determine the exact subject matter that the applicant is claiming as his invention. Applicant argues that by limiting the paper-like material to postal items, the surface condition is certainly limited. This is not so, as the examiner can think of postal materials with markedly different surface conditions, anything with a stamp can be deemed as a postal item, therefore a postal item made out of sand paper has a very different surface roughness as compared with a postal item made out of plastic, and therefore the coefficient of friction between the two surfaces changes.

In addition the applicant argues when the thickness of the most thick postal item is assumed to be a specific value, then the thickness of the second layer is defined. However, there

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is no specific value claimed in claim 1, and therefore the thickness of the second layer is not definitively defined.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nishida et al. in view of Kawasaki et al.

Nishida et al. teaches a postal item conveying apparatus comprising:

- a drive roller, 12, which is given a driving force, rotated and driven; and
- a driven roller, 20, rotatably following the rotation of the drive role, the driven roller including a first layer, 23, formed with a solid elastic material, that is in contact with the drive roller and a second layer, 24, formed with a foam elastic material inside the first layer,
- wherein postal items conveyed into the nip between the drive roller and the driven roller are punched, conveyed and carried out and a thickness of the first layer is below ½ of that of the second layer, see figure 3A, compression of the second layer is below 5%, see column 2, lines 59+.

Nishida et al. teaches all of the features of the claimed invention except for a hardness of the second laver that is below 40, but Kawasaki et al. does teach these features.

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Kawasaki et al. teaches a paper-like conveying roller with a first layer, 4, and a second layer 3. The dynamic coefficient of friction of the first layer is .25 or more, see column 5, lines 1+ for the purpose of successfully providing high quality images free from image failure and improved durability of the roller, see column 2, lines 50+. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide an elastic layer with a high coefficient of friction, of more than 3, as taught by Kawasaki et al. for the purpose of conveying paper with high quality images and without image failure through a printing machine.

Kawasaki et al. further teaches a hardness of the second layer, 3, that is below 40, Table 1 shows a hardness of the second layer 4 of 10. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a material for the second layer with a hardness below 40, as taught by Kawasaki et al. for the purpose of providing a relatively softer inner layer that was more compressible, and therefore would more stable convey the paper-like material.

With respect to the claimed limitations that the paper-like material are postal items, the applicant is reminded that "Expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim." See MPEP 2115. Therefore the claimed limitation relating the coefficient of friction of the first layer to paper being conveyed and the thickness of the second layer to the thickness of the most-thick paper being conveyed holds no patentable weight.

With respect to the claimed limitations that the coefficient of dynamic friction between the first layer and paper-like materials is more than .7 and that the thickness of the second layer is more than 1.8 times of the most thick paper-like material, the applicant is reminded that Application/Control Number: 10/779,768

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"Expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim." See MPEP 2115. Therefore the claimed limitation relating the coefficient of friction of the first layer to paper being conveyed and the thickness of the second layer to the thickness of the most-thick paper being conveyed holds no patentable weight.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nishida et al. in view of Kawasaki et al. as applied to claim 1 above, and further in view of Nagatsuka et al.

The combination of Nishida et al. and Kawasaki et al. teach all of the features of the claimed invention except for a tear strength value of the second layer that is above 6 kN/m. Nagatsuka et al. teaches silicone rubber compositions that are used in paper feed rolls for office machines, see column 1, lines 10+, that have a tear strength of above 6kN/m, see example 2, and 3 and the properties shown in Table 1-(2). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a material with a tear strength of 6 kN/m or greater for the purpose of have using a material with strong physical properties that is resistant to damage and is more durable.

Response to Arguments

Applicant's arguments filed 26 December 2007 have been fully considered but they are not persuasive.

Applicant first argues that the roller, 20, of Nishida is not a driven roller because it is driven by shaft 26. The shaft 26, is driven through grears27, which mesh with gears, 17, which Application/Control Number: 10/779,768

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are connected to driving shaft 16. Just because the roller 20 is driven by a drive shaft does not preclude is from being a driven roller, the drive shaft is driven by the gear train, and the driving of drive shaft 16. Therefore, the roller 20 is in fact a driven roller.

With regard to the arguments that none of the references teach a coefficient of dynamic friction of more than 0.7 between the first layer and the postal items, the applicant is reminded once again that "Expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim." See MPEP 2115. Therefore the claimed limitation relating the coefficient of friction of the first layer to paper being conveyed and the thickness of the second layer to the thickness of the most-thick paper being conveyed holds no patentable weight.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAITLIN S. JOERGER whose telephone number is (571)272-6938. The examiner can normally be reached on Monday - Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Mackey can be reached on 571-272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kaitlin S Joerger Primary Examiner Art Unit 3653

6 February 2008

/Kaitlin S Joerger/ Primary Examiner, Art Unit 3653